12579

Li, Ruixiang

To: STIC-Biotech/ChemLib
Subject: Sequence search of Application NO: 09/826,509

Please do a standard search on SEQ ID NO: 449 against interference amino acid databases.

Thank you very much!

Ruixiang Li
GAU 1646
REM 4D75
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78733

5/7/04
1-AM
95p

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: May 7, 2004, 13:17:25 ; Search time 22 Seconds
(without alignments)
1032.519 Million cell updates/sec

Title: US-09-826-509-449
Perfect score: 2292
Sequence: 1 MVPEPGPTANSTPAWGAGPP.....FNIDPAEPELRPHPLGIPTN 440

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	557	24.3	468	2	US-08-390-000A-7	Sequence 7, Appli
2	557	24.3	477	1	US-08-087-772A-16	Sequence 16, Appl
3	554	24.2	405	1	US-08-351-473B-2	Sequence 2, Appli
4	553.5	24.1	365	2	US-08-467-559B-9	Sequence 9, Appli
5	552.5	24.1	400	1	US-08-351-473B-5	Sequence 5, Appli
6	552.5	24.1	400	3	US-08-450-962-4	Sequence 4, Appli
7	552.5	24.1	400	3	US-08-450-962-6	Sequence 6, Appli
8	552.5	24.1	400	4	US-08-848-631-4	Sequence 4, Appli
9	552.5	24.1	400	4	US-08-848-631-6	Sequence 6, Appli
10	552.5	24.1	446	1	US-07-626-618A-21	Sequence 21, Appl
11	552.5	24.1	446	1	US-08-333-977-21	Sequence 21, Appl
12	551.5	24.1	400	1	US-07-916-901-6	Sequence 6, Appli
13	551.5	24.1	400	1	US-07-783-602C-1	Sequence 1, Appli
14	551.5	24.1	400	1	US-08-351-473B-4	Sequence 4, Appli
15	551	24.0	477	1	US-08-444-734A-4	Sequence 4, Appli
16	547.5	23.9	446	2	US-07-969-267B-4	Sequence 4, Appli
17	547.5	23.9	446	4	US-09-168-510-4	Sequence 4, Appli
18	546	23.8	388	1	US-08-087-772A-2	Sequence 2, Appli
19	538.5	23.5	472	1	US-08-194-338-6	Sequence 6, Appli
20	533.5	23.3	487	1	US-08-444-734A-2	Sequence 2, Appli
21	533	23.3	408	1	US-08-351-473B-3	Sequence 3, Appli
22	531	23.2	402	1	US-08-444-734A-6	Sequence 6, Appli
23	531	23.2	402	1	US-08-087-772A-15	Sequence 15, Appl
24	531	23.2	408	1	US-07-916-901-2	Sequence 2, Appli
25	531	23.2	408	3	US-08-450-962-2	Sequence 2, Appli
26	531	23.2	408	3	US-08-450-962-5	Sequence 5, Appli
27	531	23.2	408	4	US-08-848-631-2	Sequence 2, Appli
28	531	23.2	408	4	US-08-848-631-5	Sequence 5, Appli
29	524.5	22.9	446	1	US-07-626-618A-22	Sequence 22, Appl
30	524.5	22.9	446	1	US-08-333-977-22	Sequence 22, Appl
31	523	22.8	400	2	US-08-103-170-9	Sequence 9, Appli
32	515.5	22.5	483	1	US-08-194-338-7	Sequence 7, Appli
33	508	22.2	559	2	US-08-406-855A-20	Sequence 20, Appl
34	508	22.2	559	3	US-09-206-899-20	Sequence 20, Appl
35	507.5	22.1	560	4	US-09-688-415-8	Sequence 8, Appli
36	503	21.9	572	1	US-08-334-698-2	Sequence 2, Appli
37	503	21.9	572	1	US-08-228-932-2	Sequence 2, Appli
38	503	21.9	572	1	US-08-468-939-2	Sequence 2, Appli
39	503	21.9	572	1	US-08-722-001-30	Sequence 30, Appl
40	503	21.9	572	2	US-08-406-855A-2	Sequence 2, Appli
41	503	21.9	572	2	US-08-722-190-2	Sequence 2, Appli
42	503	21.9	572	3	US-08-244-354-2	Sequence 2, Appli
43	503	21.9	572	3	US-09-206-899-2	Sequence 2, Appli
44	503	21.9	572	4	US-09-444-783-2	Sequence 2, Appli
45	503	21.9	572	4	US-09-688-415-2	Sequence 2, Appli

ALIGNMENTS

```
RESULT 1
US-08-390-000A-7
; Sequence 7, Application US/08390000A
; Patent No. 5985583
;  GENERAL INFORMATION:
;    APPLICANT:  Sealfon, Stuart C.
;    TITLE OF INVENTION:  Cloning and Expression of
;    TITLE OF INVENTION:  Gonadotropin-Releasing Hormone Receptor
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds LLP
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/390,000A
;      FILING DATE:  17-FEB-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  6923-052
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212 790-9090
;      TELEFAX:  212 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  468 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
US-08-390-000A-7

  Query Match             24.3%;  Score 557;  DB 2;  Length 468;
  Best Local Similarity   33.8%;  Pred. No. 2.1e-34;
  Matches  144;  Conservative   67;  Mismatches  169;  Indels   46;  Gaps   11;

Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              :||   | :   ||  :  | :   :  :   : ::: |  | | |:|  |   | |:
Db         24 LVPASPPASLLPPASESPEPLSQQWTAGMGLLMALIVLLIVAGNVLVIVAIAKTPRLQTL 83

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
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Db         84 TNLFIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVI 143

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV-- 176

Db        144 ALDRYLAITSPFRYQSLLTRARARGLVCTVWAISALVSFLPILMHWWRAESDEARRCYND 203

Qy        177 PGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQ 232

Db        204 PKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARP 263

Qy        233 ASET-------LQVPRTPRPGVESADS------------RRLATKHSRKALKAKLTLGIL 273

Db        264 PSPSPSPVPAPAPPPGPPRPAAAAATAPLANGRAGKRRPSRLVALREQKALK---TLGII 320

Qy        274 LGMFFVTWLPFFVANIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329

Db        321 MGVFTLCWLPFFLANVVKAFHRELVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRK 376

Qy        330 ALGRFLPCPRCPRERQASLASPSLRTSHSGPRPGLSLQQVLPLPLP-PDSDSDSDAGSGG 388

Db        377 AFQGLLCCARRAARRRHATHGDRPRASGCLARPG-------PPPSPGAASDDDDDVVGA 429

Qy        389 SSGLRL 394

Db        430 TPPARL 435
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RESULT 2
US-08-087-772A-16
; Sequence 16, Application US/08087772A
; Patent No. 5691155
; GENERAL INFORMATION:
; APPLICANT: Nahmias, Clara
; APPLICANT: Emorine, Jean L.
; APPLICANT: Strosberg, Donny A.
; TITLE OF INVENTION: Nucleotide Sequences Encoding the Murine
; TITLE OF INVENTION: Beta3-Adrenergic Receptor and Their Applications
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson
; STREET: Post Office Drawer 34009
; CITY: Charlotte
; STATE: No. 5691155th Carolina
; COUNTRY: USA
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/087,772A
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Linker, Raymond O.
; REGISTRATION NUMBER: 26,419
; REFERENCE/DOCKET NUMBER: 3339-195
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-881-3140
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 477 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-087-772A-16

Query Match 24.3%; Score 557; DB 1; Length 477;
Best Local Similarity 33.8%; Pred. No. 2.1e-34;

Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;

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Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60

Db         33 LVPASPPASLLPPASESPEPLSQQWTAGMGLLMALIVLLIVAGNVLVIVAIAKTPRLQTL 92

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Db         93 TNLFIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVI 152

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV-- 176

Db        153 ALDRYLAITSPFRYQSLLTRARARGLVCTVWAISALVSFLPILMHWWRAESDEARRCYND 212

Qy        177 PGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQ 232

Db        213 PKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARP 272

Qy        233 ASET-------LQVPRTPRPGVESADS------------RRLATKHSRKALKAKLTLGIL 273

Db        273 PSPSPSPVPAPAPPPGPPRPAAAAATAPLANGRAGKRRPSRLVALREQKALK---TLGII 329

Qy        274 LGMFFVTWLPFFVANIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329

Db        330 MGVFTLCWLPFFLANVVKAFHRELVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRK 385

Qy        330 ALGRFLPCPRCPRERQASLASPSLRTSHSGPRPGLSLQQVLPLPLP-PDSDSDSDAGSGG 388

Db        386 AFQGLLCCARRAARRRHATHGDRPRASGCLARPG-------PPPSPGAASDDDDDVVGA 438

Qy        389 SSGLRL 394

Db        439 TPPARL 444
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RESULT 3
US-08-351-473B-2
; Sequence 2, Application US/08351473B
; Patent No. 5656440
; GENERAL INFORMATION:
; APPLICANT: LENZEN, GERLINDA
; APPLICANT: KAPOOR, ARCHANA
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE
; TITLE OF INVENTION: BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/351,473B
; FILING DATE: 21-FEB-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 93 04670
; FILING DATE: 21-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR94/00447
; FILING DATE: 21-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 6639-001-0X PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000

```
;      TELEFAX:  (703) 413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  405 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-351-473B-2

  Query Match            24.2%;  Score 554;  DB 1;  Length 405;
  Best Local Similarity  33.6%;  Pred. No. 3e-34;
  Matches  143;  Conservative   61;  Mismatches  156;  Indels   66;  Gaps   13;

Qy          1 MVPEPG-PTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRN 59
              :  |  |  ||      |  :| |  |       | | : :  |   | |:|  |   | |:
Db         11 LTPWPDIPTLAPNTANASGLPGVPWAVALAGALLALAVLATVGGNLLVIVAIARTPRLQT 70

Qy         60 TSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCL 119
              :| |: || |:||:|||:|:||    || | | |    | |||: ||:| :|||  ||
Db         71 MTNVFVTSLATADLVVGLLVVPPGATLALTGHWPLGVTGCELWTSVDVLCVTASIETLCA 130

Qy        120 ISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG--------H 171
              :::|||| : :|||   :|  |||| |:  | ::|  || |::  |  :|         |
Db        131 LAVDRYLAVTNPLRYGALVTKRRALAAVVLVWVVSAAVSFAPIMSKWWRIGADAEAQRCH 190

Qy        172 ARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGM-- 229
              : |      |   :::|: |::| ::|:||   : | | |: : | :| :::      |
Db        191 SNPRC---CTFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVATRQ-LRLLRRELGRFP 246

Qy        230 --------ASQASETLQVPRTPRPGVESADSR--RLATKHSRKALKAKLTLGILLGMPFV 279
                     :   |  |  |     || |   |  ||      :||:   |||:::| | :
Db        247 PEESPPAPSRSGSPGLAGPCASPAGVPSYGRRPARLLPLREHRALR---TLGLIMGTFTL 303

Qy        280 TWLPFFVANIVQAV--CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKRALGRF 334
              ||||||  |:|:|:     :|   |  | |||| ||  ||:||   | |   |:| | |
Db        304 CWLPFFVVNVVRALGGPSLVSGPTFLALNWLGYANSAFNPLIYCRSPDFRSAFRRLLCRC 363

Qy        335 LP--------CPRCPRERQASLASPSLRTSHSGPRPGLSLQQVLPLPLPPDSDSDSDAGS 386
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Db        364 RPEEHLAAASPPRAPS------GAPTALTSPAGPMQ-----------PPELD------- 398

Qy        387 GGSSGL 392
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Db        399 GASCGL 404


RESULT 4
US-08-467-559B-9
; Sequence 9, Application US/08467559B
; Patent No. 5928890
;  GENERAL INFORMATION:
;    APPLICANT:  LI, YI
;    TITLE OF INVENTION:  HUMAN AMINE RECEPTOR
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  STERNE, KESSLER, GOLDSTEIN AND FOX, P.L.L.C.
;      STREET:  1100 NEW YORK AVENUE, NW, SUITE 600
;      CITY:  WASHINGTON
;      STATE:  DC
;      COUNTRY:  UNITED STATES OF AMERICA
;      ZIP:  20005-3934
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,559B
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  STEFFE, ERIC K
;      REGISTRATION NUMBER:  36,688
;      REFERENCE/DOCKET NUMBER:  1488.0840000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  365 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
US-08-467-559B-9

  Query Match            24.1%;  Score 553.5;  DB 2;  Length 365;
  Best Local Similarity  37.8%;  Pred. No. 2.9e-34;
  Matches  137;  Conservative   56;  Mismatches  134;  Indels   35;  Gaps   12;

Qy          7 PTANSTPAWGAGPPSAPGGSGWVAA---ALCVVIALTAAANSLLIALICTQPALRNTSNF 63
              | |:  |     |  |||     | |      : :::  |     | |:|  |   | |:  :|
Db          9 PPASLLPPASEG--SAPLSQQWTAGMGLLVALIVLLIVVGNVLVIVAIAKTPRLQTLTNL 66

Qy         64 FLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLD 123
              |::|| ::|||::||:|:|       ::|||       | |||:  ||:|  :|||  ||:|:||
Db         67 FIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVIALD 126

Qy        124 RYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV--PGQ 179
              ||| | || ||:  :|  || |||    |:::|| ||||:|:  |    |     ||      |
Db        127 RYLAITSPFRYQSLLTRARARALVCTVWAISALVSFLPILMHWWRAESDEARRCYNDPKC 186

Qy        180 CRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQAS- 234
              |  : :  : : :| ::|::|   : | | |:   |:||  :: |      | |   |
Db        187 CDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARPPSP 246

Qy        235 ETLQVPRTPRPGVESADSR-------RLATKHSRKALKAKLTLGILLGMFFVTWLPFFVA 287
              |    | |||    |: |        ||      :||||  ||||::|:| : |||||:|
Db        247 EPSPSPGPPRPADSLANGRSSKRRPSRLVALREQKALK---TLGIIMGVFTLCWLPFFLA 303

Qy        288 NIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKRALGRFLPCPR---C 340
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Db        304 NVVKAFHRDLVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRKAFQRLLCCARRAAC 359

Qy        341 PR 342
              ||
Db        360 RR 361


RESULT 5
US-08-351-473B-5
; Sequence 5, Application US/08351473B
; Patent No. 5656440
;  GENERAL INFORMATION:
;    APPLICANT:  LENZEN, GERLINDA
;    APPLICANT:  KAPOOR, ARCHANA
;    TITLE OF INVENTION:  NUCLEOTIDE SEQUENCES CODING FOR THE
;    TITLE OF INVENTION:  BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT
;      STREET:  1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  USA
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/351,473B
;      FILING DATE:  21-FEB-1995
;      CLASSIFICATION:  435
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;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  93 04670
;      FILING DATE:  21-APR-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/FR94/00447
;      FILING DATE:  21-APR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OBLON, NORMAN F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  6639-001-0X PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 413-3000
;      TELEFAX:  (703) 413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-351-473B-5

  Query Match             24.1%;  Score 552.5;  DB 1;  Length 400;
  Best Local Similarity   35.1%;  Pred. No. 3.9e-34;
  Matches  141;  Conservative   60;  Mismatches  150;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
              | |  | : | |   |   |||   ||     | ||    ::|| |   | |:|  |
Db          3 PWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIART 62

Qy         55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
              | |:  :| |: ||  :||:|||:||||     || | | |     | |||: ||:| :|||
Db         63 PRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
                || :::|||| : :||||   :|  || | |:  | ::|  || |::  |  :|
Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
                  |: |      |   :::|: |::| ::|:||   : | | |: : |::|   :
Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-HLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274
                |  |          |:| |          ||     |  ||      :||:   |||:::
Db        239 LGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              |:| : |||||:||:::|:     :  |:|  | |||| ||  ||:||   | |   |:|
Db        296 GIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362
                |   ||   ||    |     :  || |     : | ||
Db        356 LLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARP 397


RESULT 6
US-08-450-962-4
; Sequence 4, Application US/08450962
; Patent No. 6274706
;  GENERAL INFORMATION:
;    APPLICANT:  EMORINE, Laurent; MARULLO, Stefano;
;    APPLICANT:  STROSBERG, Donny
;    TITLE OF INVENTION:  INTRON/EXON OF THE HUMAN AND
;    TITLE OF INVENTION:  GENES
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  KECK, MAHIN & CATE
;      STREET:  P.O. BOX 06110
;      CITY:  CHICAGO
;      STATE:  ILLINOIS
;      COUNTRY:  U.S.A.
;      ZIP:  60606-0110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3-1/2" diskette
;      COMPUTER:  IBM compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  ASCII
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/450,962
;      FILING DATE:
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/117,829
;      FILING DATE:  08-SEPT-1993
;      APPLICATION NUMBER:  07/721,571
;      FILING DATE:  25-MAY-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/FR89/00918
;      FILING DATE:  25-JAN-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Fleit, Martin; Gollin, Michael A.
;      REGISTRATION NUMBER:  16,900; 31,957
;      REFERENCE/DOCKET NUMBER:  47078-042
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 789-3400
;      TELEFAX:  (202) 789-1158
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400 residues
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:
;      DESCRIPTION:  polypeptide
US-08-450-962-4

  Query Match             24.1%;  Score 552.5;  DB 3;  Length 400;
  Best Local Similarity   35.1%;  Pred. No. 3.9e-34;
  Matches  141;  Conservative   60;  Mismatches  150;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
              | |  | : | |   |   |||   ||     | ||    ::|| |   | |:|  |
Db          3 PWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIART 62

Qy         55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
              | |:  :| |: ||  :||:|||:||||     || | | |     | |||: ||:| :|||
Db         63 PRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
                || :::|||| : :||||   :|  || | |:  | ::|  || |::  |  :|
Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
                  |: |      |   :::|: |::| ::|:||   : | | |: : |::|   :
Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-HLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274
                |  |          |:| |          ||     |  ||      :||:   |||:::
Db        239 LGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              |:| : |||||:||:::|:     :  |:|  | |||| ||  ||:||   | |   |:|
Db        296 GIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362
                |   ||   ||    |     :  || |     : | ||
Db        356 LLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARP 397


RESULT 7
US-08-450-962-6
; Sequence 6, Application US/08450962
; Patent No. 6274706
;  GENERAL INFORMATION:
;    APPLICANT:  EMORINE, Laurent; MARULLO, Stefano;
;    APPLICANT:  STROSBERG, Donny
```

```
;    TITLE OF INVENTION:  INTRON/EXON OF THE HUMAN AND
;    TITLE OF INVENTION:  GENES
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  KECK, MAHIN & CATE
;      STREET:  P.O. BOX 06110
;      CITY:  CHICAGO
;      STATE:  ILLINOIS
;      COUNTRY:  U.S.A.
;      ZIP:  60606-0110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3-1/2" diskette
;      COMPUTER:  IBM compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  ASCII
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/450,962
;      FILING DATE:
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/117,829
;      FILING DATE:  08-SEPT-1993
;      APPLICATION NUMBER:  07/721,571
;      FILING DATE:  25-MAY-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/FR89/00918
;      FILING DATE:  25-JAN-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Fleit, Martin; Gollin, Michael A.
;      REGISTRATION NUMBER:  16,900; 31,957
;      REFERENCE/DOCKET NUMBER:  47078-042
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 789-3400
;      TELEFAX:  (202) 789-1158
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400 residues
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:
;      DESCRIPTION:  polypeptide
US-08-450-962-6

  Query Match             24.1%;  Score 552.5;  DB 3;  Length 400;
  Best Local Similarity   35.1%;  Pred. No. 3.9e-34;
  Matches  141;  Conservative   60;  Mismatches  150;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
              |  |  | : | |    |   |||   ||      | ||    ::|| |   | |:|  |
Db          3 PWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIART 62

Qy         55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
              | |:  :| |: ||  :||:|||:||||    || | | |     | |||: ||:| :|||
Db         63 PRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
              || :::|||| : :|||   :|  || | |:  | ::|  || |::  |  :|
Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
                  |: |     |   :::|: |::| ::|:||   : | | |: : |::|   :
Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-HLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274
                |  |          |:| |          ||      |  ||      :||:   |||:::
Db        239 LGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              |:| : |||||:||:::|:     :  |:|  | |||| ||  ||:||   | |   |:|
Db        296 GIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362
                |    ||    ||    |     :  || |     : | ||
Db        356 LLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARP 397


RESULT 8
US-08-848-631-4
; Sequence 4, Application US/08848631
; Patent No. 6635442
;  GENERAL INFORMATION:
;       APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
;                  STROSBERG, Donny
;       TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
;                           MOUSE a3-ADRENERGIC RECEPTOR
;                           GENES
;       NUMBER OF SEQUENCES: 9
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: KECK, MAHIN & CATE
;            STREET: P.O. BOX 06110
;            CITY: CHICAGO
;            STATE: ILLINOIS
;            COUNTRY: U.S.A.
;            ZIP: 60606-0110
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: 3-1/2" diskette
;            COMPUTER: IBM compatible
;            OPERATING SYSTEM: MS-DOS
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/08/848,631
;            FILING DATE: 08-Jun-1999
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 07/721,571
;            FILING DATE: 25-MAY-1990
;            APPLICATION NUMBER: PCT/FR89/00918
;            FILING DATE: 25-JAN-1989
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Fleit, Martin; Gollin, Michael A.
;            REGISTRATION NUMBER: 16,900; 31,957
;            REFERENCE/DOCKET NUMBER: 47078-042
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 789-3400
;            TELEFAX: (202) 789-1158
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 400 residues
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: <Unknown>
;            DESCRIPTION: polypeptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-08-848-631-4

  Query Match             24.1%;  Score 552.5;  DB 4;  Length 400;
  Best Local Similarity   35.1%;  Pred. No. 3.9e-34;
  Matches  141;  Conservative   60;  Mismatches  150;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
              |  |  | : | |    |   |||   ||      | ||    ::|| |   | |:|  |
Db          3 PWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIART 62

Qy         55 PALRNTSNFPLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
              | |:  :| |: ||  :||:|||:||||    || | | |     | |||: ||:| :|||
Db         63 PRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
              || :::|||| : :|||   :|  || | |:  | ::|  || |::  |  :|
Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
                  |: |     |   :::|: |::| ::|:||   : | | |: : |::|   :
Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-HLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274
                |  |          |:| |          ||      |  ||      :||:   |||:::
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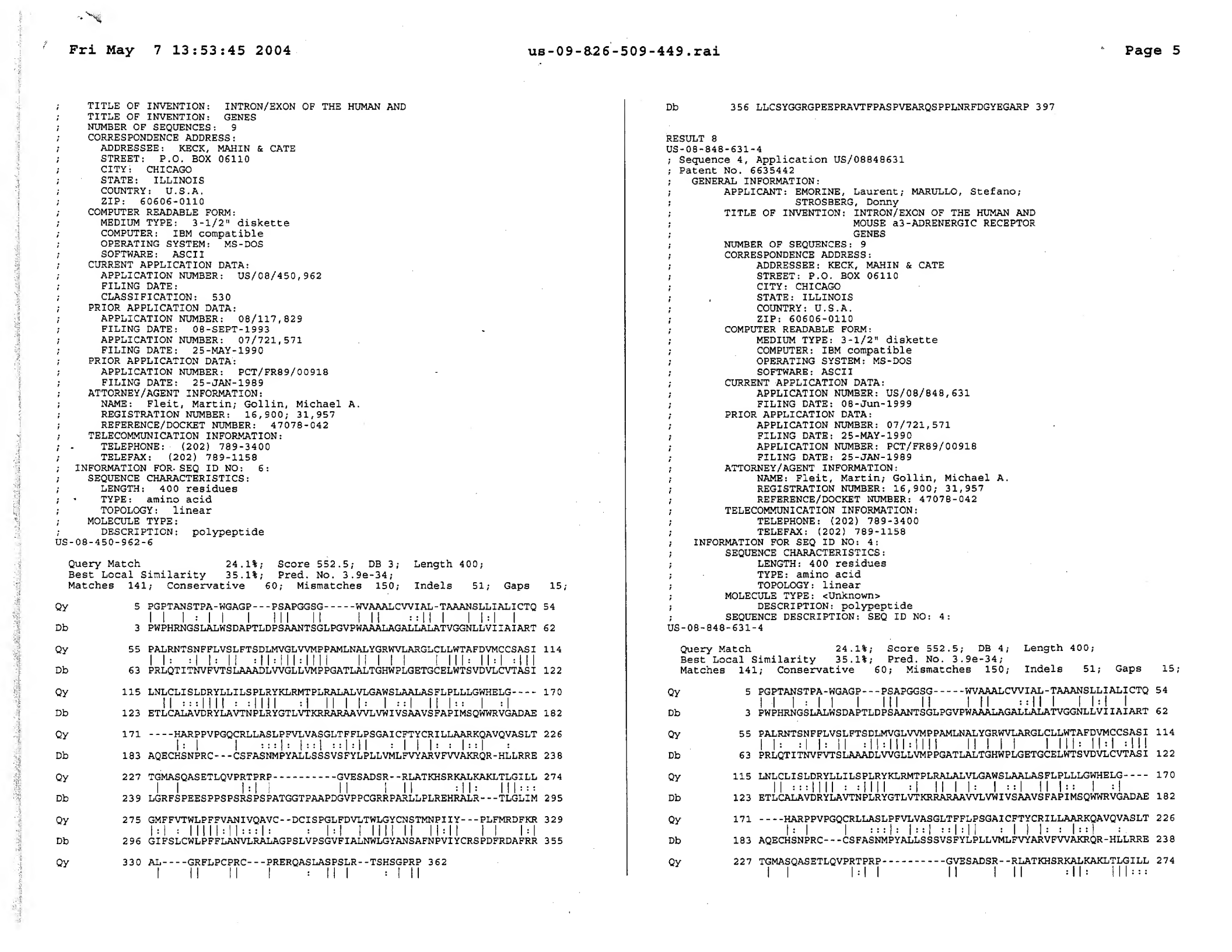

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Db        239 LGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329

Db        296 GIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362

Db        356 LLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARP 397


RESULT 9
US-08-848-631-6
; Sequence 6, Application US/08848631
; Patent No. 6635442
;  GENERAL INFORMATION:
;       APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
;                  STROSBERG, Donny
;       TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
;                           MOUSE a3-ADRENERGIC RECEPTOR
;                           GENES
;       NUMBER OF SEQUENCES: 9
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: KECK, MAHIN & CATE
;            STREET: P.O. BOX 06110
;            CITY: CHICAGO
;            STATE: ILLINOIS
;            COUNTRY: U.S.A.
;            ZIP: 60606-0110
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: 3-1/2" diskette
;            COMPUTER: IBM compatible
;            OPERATING SYSTEM: MS-DOS
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/08/848,631
;            FILING DATE: 08-Jun-1999
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 07/721,571
;            FILING DATE: 25-MAY-1990
;            APPLICATION NUMBER: PCT/FR89/00918
;            FILING DATE: 25-JAN-1989
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Fleit, Martin; Gollin, Michael A.
;            REGISTRATION NUMBER: 16,900; 31,957
;            REFERENCE/DOCKET NUMBER: 47078-042
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 789-3400
;            TELEFAX: (202) 789-1158
;   INFORMATION FOR SEQ ID NO: 6:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 400 residues
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: <Unknown>
;            DESCRIPTION: polypeptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-08-848-631-6

  Query Match             24.1%;  Score 552.5;  DB 4;  Length 400;
  Best Local Similarity   35.1%;  Pred. No. 3.9e-34;
  Matches  141;  Conservative   60;  Mismatches  150;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54

Db          3 PWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIART 62

Qy         55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114

Db         63 PRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
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Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226

Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-HLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274

Db        239 LGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329

Db        296 GIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362

Db        356 LLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARP 397


RESULT 10
US-07-626-618A-21
; Sequence 21, Application US/07626618A
; Patent No. 5422265
;  GENERAL INFORMATION:
;    APPLICANT:  Van Tol, Hubert H.M.
;    APPLICANT:  Civelli, Olivier
;    TITLE OF INVENTION:  A No. 5422265el Human Dopamine Receptor and Uses
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Allegretti & Witcoff, Ltd.
;      STREET:  10 South Wacker Drive, Suite 3000
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/626,618A
;      FILING DATE:  7 DEC 1990
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5422265nan, Kevin E
;      REGISTRATION NUMBER:  35,303
;      REFERENCE/DOCKET NUMBER:  90,1092
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-715-1000
;      TELEFAX:  312-715-1234
;      TELEX:  810-221-8317
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  446 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-07-626-618A-21

  Query Match             24.1%;  Score 552.5;  DB 1;  Length 446;
  Best Local Similarity   31.2%;  Pred. No. 4.3e-34;
  Matches  143;  Conservative   79;  Mismatches  172;  Indels   65;  Gaps   13;

Qy         21 SAPGGSGWV-----------AAALCVVIALTAAANSLLIALICTQPALRN-TSNFFLVSL 68

Db          7 SAMDGTGLVVERDFSVRILTACFLSLLILSTLLGNTLVCAAVIRFRHLRSKVTNFFVISL 66

Qy         69 FTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLDRYLLI 128

Db         67 AVSDLLVAVLVMPWKAVAEIAGFWPFG-SFCNIWVAFDIMCSTASILNLCVISVDRYWAI 125
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Qy        129 LSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPG---------- 178
              || ||: :|||  |  |:  ||:|: | ||:|: | ||:   |:|  |
Db        126 SSPFRYERKMTPKAAFILISVAWTLSVLISFIPVQLSWHK---AKPTSPSDGNATSLAET 182

Qy        179 --QCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASL-TTGMASQASE 235
                 |    |  : : :| ::|::|   :  || ||   |:||  ::|:|    : ::  :
Db        183 IDNCDSSLSRTYAISSSVISFYIPVAIMIVTYTRIYRIAQKQIRRIAALERAAVHAKNCQ 242

Qy        236 TLQVPRTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCD 295
              |       |    :  | ::: |   | ||   || :::|:|   ||||| : |  :   |
Db        243 TTTGNGKPVECSQPESSFKMSFKRETKVLK---TLSVIMGVFVCCWLPFFILNCILPFCG 299

Qy        296 -------CISPGLFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPR-CPRERQA- 346
                    ||    |||  | |: ||::|||||  |  ||::|    | | | ||    |
Db        300 SGETQPFCIDSNTFDVFVWFGWANSSLNPIIY-AFNADFRKAFSTLLGCYRLCPATNNAI 358

Qy        347 -----SLASPSLRTSHSGPRPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLP 401
                  :    :: :||  ||  :| :  |   :|    |  |     ::|:   : | |
Db        359 ETVSINNNGAAMFSSHHEPRGSISKECNLVYLIPHAVGSSEDLKKEEAAGIARPLEKLSP 418

Qy        402 GEATQDPPLPTRAAAAVNFFNIDPAEPELRP------HP 434
                      | : :  :: | :  :::|      ||
Db        419 -----------ALSVILDYDTDVSLEKIQPITQNGQHP 445


RESULT 11
US-08-333-977-21
; Sequence 21, Application US/08333977
; Patent No. 5594108
;  GENERAL INFORMATION:
;    APPLICANT:  Van Tol, Hubert H.M.
;    APPLICANT:  Civelli, Olivier
;    TITLE OF INVENTION:  A No. 5594108el Human Dopamine Receptor and Uses
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Allegretti & Witcoff, Ltd.
;      STREET:  10 South Wacker Drive, Suite 3000
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/333,977
;      FILING DATE:  03-NOV-1994
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/626,618
;      FILING DATE:  7 DEC 1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5594108nan, Kevin E
;      REGISTRATION NUMBER:  35,303
;      REFERENCE/DOCKET NUMBER:  90,1092
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-715-1000
;      TELEFAX:  312-715-1234
;      TELEX:  810-221-8317
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  446 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-333-977-21

  Query Match             24.1%;  Score 552.5;  DB 1;  Length 446;
  Best Local Similarity   31.2%;  Pred. No. 4.3e-34;
  Matches  143;  Conservative   79;  Mismatches  172;  Indels   65;  Gaps   13;

Qy         21 SAPGGSGWV----------AAALCVVIALTAAANSLLIALICTQPALRN-TSNFFLVSL 68
              ||  |:| |           |  | ::|  |   |:|: | :     ||:  :|||::||
Db          7 SAMDGTGLVVERDFSVRILTACFLSLLILSTLLGNTLVCAAVIRFRHLRSKVTNFFVISL 66

Qy         69 FTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLDRYLLI 128
              |||:| ::|||   :  : | |       | :| |||:|| :|||||||:||:|||  |
Db         67 AVSDLLVAVLVMPWKAVAEIAGFWPFG-SFCNIWVAFDIMCSTASILNLCVISVDRYWAI 125

Qy        129 LSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPG---------- 178
              || ||: :|||  |  |:  ||:|: | ||:|: | ||:   |:|  |
Db        126 SSPFRYERKMTPKAAFILISVAWTLSVLISFIPVQLSWHK---AKPTSPSDGNATSLAET 182

Qy        179 --QCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASL-TTGMASQASE 235
                 |    |  : : :| ::|::|   :  || ||   |:||  ::|:|    : ::  :
Db        183 IDNCDSSLSRTYAISSSVISFYIPVAIMIVTYTRIYRIAQKQIRRIAALERAAVHAKNCQ 242

Qy        236 TLQVPRTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCD 295
              |       |    :  | ::: |   | ||   || :::|:|   ||||| : |  :   |
Db        243 TTTGNGKPVECSQPESSFKMSFKRETKVLK---TLSVIMGVFVCCWLPFFILNCILPFCG 299

Qy        296 -------CISPGLFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPR-CPRERQA- 346
                    ||    |||  | |: ||::|||||  |  ||::|    | | | ||    |
Db        300 SGETQPFCIDSNTFDVFVWFGWANSSLNPIIY-AFNADFRKAFSTLLGCYRLCPATNNAI 358

Qy        347 -----SLASPSLRTSHSGPRPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLP 401
                  :    :: :||  ||  :| :  |   :|    |  |     ::|:   : | |
Db        359 ETVSINNNGAAMFSSHHEPRGSISKECNLVYLIPHAVGSSEDLKKEEAAGIARPLEKLSP 418

Qy        402 GEATQDPPLPTRAAAAVNFFNIDPAEPELRP------HP 434
                      | : :  :: | :  :::|      ||
Db        419 -----------ALSVILDYDTDVSLEKIQPITQNGQHP 445


RESULT 12
US-07-916-901-6
; Sequence 6, Application US/07916901
; Patent No. 5364772
;  GENERAL INFORMATION:
;    APPLICANT:  Granneman, James G.
;    APPLICANT:  Lahners, Kristine N.
;    APPLICANT:  Rao, Donald D.
;    TITLE OF INVENTION:  @ @3-ADRENERGIC RECEPTOR PROTEIN AND DNA
;    TITLE OF INVENTION:  ENCODING SAME
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  REISING, ETHINGTON, BARNARD, PERRY &
;      ADDRESSEE:  MILTON
;      STREET:  201 W. Big Beaver - Ste. 400; P.O. Box 4390
;      CITY:  Troy
;      STATE:  Michigan
;      COUNTRY:  USA
;      ZIP:  48099
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/916,901
;      FILING DATE:  19920720
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kohn, Kenneth I.
;      REGISTRATION NUMBER:  30,955
;      REFERENCE/DOCKET NUMBER:  P-324(WSU)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (313) 689-3554
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
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;    MOLECULE TYPE:  protein
US-07-916-901-6

  Query Match             24.1%;  Score 551.5;  DB 1;  Length 400;
  Best Local Similarity   35.3%;  Pred. No. 4.6e-34;
  Matches  142;  Conservative   61;  Mismatches  148;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
              | |  | : | |   |   |||   ||     | ||    ::|| |   | |:|  |
Db          3 PWPHKNGSLAFWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVITAIART 62

Qy         55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
              | |:  :| |: || |:||:|||:||||     || | | |     | |||: ||:| :|||
Db         63 PRLQTITNVFVTSLATADLVVGLLVMPPGATLALTGHWPLGATGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
               || :::|||| : :||||   :|  || | |:  | ::|  || |::  |  :|
Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSATVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
                  |: |      |   :::|: |::| ::|:||   : | | |: : |::|  ::
Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-RLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274
                |          |:| |           || |   |  ||       :||:   |||:::
Db        239 LGRFPPEESPRSPSRSPSPATVGTPTASDGVPSCGRRPARLLPLGEHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              |:| : |||||:||:::|:     :  |:|  | |||| ||  ||:||   | |   |:|
Db        296 GIFSLCWLPFFLANVLRALVGPSLVPSGVFIALNWLGYANSAFNPLIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362
               |    ||   ||    |   ||  :  |     : | ||
Db        356 LLCSYGGRGPEEPRVVTFPASPVASRQNSPLNRFDGYEGERP 397


RESULT 13
US-07-783-602C-1
; Sequence 1, Application US/07783602C
; Patent No: 5418160
;  GENERAL INFORMATION:
;    APPLICANT:  J. Craig Venter et al
;    TITLE OF INVENTION:  A FAT CELL SPECIFIC a-ADRENERGIC
;    TITLE OF INVENTION:  RECEPTOR
;    NUMBER OF SEQUENCES:  1
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Lowe, Price, LeBlanc & Becker
;      STREET:  Suite 300, 99 Canal Center Plaza
;      CITY:  Alexandria
;      STATE:  Virginia
;      COUNTRY:  USA
;      ZIP:  22314
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  DOS Text File
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/783,602C
;      FILING DATE:  19911101
;      CLASSIFICATION:  436
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  J.G. Mullins
;      REGISTRATION NUMBER:  33073
;      REFERENCE/DOCKET NUMBER:  717-098
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  703 684 1111
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
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;    MOLECULE TYPE:  Polypeptide
US-07-783-602C-1

  Query Match             24.1%;  Score 551.5;  DB 1;  Length 400;
  Best Local Similarity   35.8%;  Pred. No. 4.6e-34;
  Matches  144;  Conservative   61;  Mismatches  146;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
              | |  | : | |   |   |||   ||     | ||    ::|| |   | |:|  |
Db          3 PWPHKNGSLAFWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVITAIART 62

Qy         55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
              | |:  :| |: || |:||:|||:||||     || | | |     | |||: ||:| :|||
Db         63 PRLQTITNVFVTSLATADLVVGLLVMPPGATLALTGHWPLGATGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
               || :::|||| : :||||   :|  || | |:  | ::|  || |::  |  :|
Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSATVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQV---- 222
                  |: |      |   :::|: |::| ::|:||   : | | |: : |::|  |
Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQRRFVRREL 239

Qy        223 ------ASLTTGMASQASETLQVPRTPRPGVESADSR--RLATKHSRKALKAKLTLGILL 274
                   |  :   | :  |:  | |   || |   |  ||       :||:   |||:::
Db        240 GRFPPEESPRSPSRSPSPATVGTP-TASDGVPSCGRRPARLLPLGEHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              |:| : |||||:||:::|:     :  |:|  | |||| ||  ||:||   | |   |:|
Db        296 GIFSLCWLPFFLANVLRALVGPSLVPSGVFIALNWLGYANSAFNPLIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362
               |    ||   ||    |   ||  :  |     : | ||
Db        356 LLCSYGGRGPEEPRVVTFPASPVASRQNSPLNRFDGYEGERP 397


RESULT 14
US-08-351-473B-4
; Sequence 4, Application US/08351473B
; Patent No. 5656440
;  GENERAL INFORMATION:
;    APPLICANT:  LENZEN, GERLINDA
;    APPLICANT:  KAPOOR, ARCHANA
;    TITLE OF INVENTION:  NUCLEOTIDE SEQUENCES CODING FOR THE
;    TITLE OF INVENTION:  BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT
;      STREET:  1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  USA
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/351,473B
;      FILING DATE:  21-FEB-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  93 04670
;      FILING DATE:  21-APR-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/FR94/00447
;      FILING DATE:  21-APR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OBLON, NORMAN F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  6639-001-0X PCT
;    TELECOMMUNICATION INFORMATION:
```

```
;      TELEPHONE:  (703) 413-3000
;      TELEFAX:  (703) 413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-351-473B-4

  Query Match            24.1%;  Score 551.5;  DB 1;  Length 400;
  Best Local Similarity  35.1%;  Pred. No. 4.6e-34;
  Matches  141;  Conservative   62;  Mismatches  148;  Indels   51;  Gaps   15;

Qy          5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
              |  |  : |  |   |   |||   ||      | ||    ::|| |   | |:|  |
Db          3 PWPHKNGSLAFWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVITAIART 62

Qy         55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
              | |:  :|  |: || |:||:|||:||||     |: | | |     | |||: ||:| :|||
Db         63 PRLQTITNVFVTSLATADLVVGLLVMPPGATLAITGHWPLGATGCELWTSVDVLCVTASI 122

Qy        115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
                || :::|||| : :||||   :|  || | |:  | ::|  || |::  |  :|
Db        123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSATVSFAPIMSQWWRVGADAE 182

Qy        171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
                  |: |    |   :::|: |::| ::|:||   : | | |: : |::|  ::
Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-RLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274
                |           |:| |          || |   |  ||      :||:   |||:::
Db        239 LGRFPPEESPRSPSRSPSPATVGTPTASDGVPSCGRRPARLLPLGEHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              |:| : |||||:||:::|:     :  |:|  | |||| ||  ||:||   | |    |:|
Db        296 GIFSLCWLPFFLANVIRALVGPSLVPSGVFIALNWLGYANSAFNPLIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362
                |    ||    ||   |    ||  :  |    : | ||
Db        356 LLCSYGGRGPEEPRVVTFPASPVASRQNSPLNRFDGYEGERP 397


RESULT 15
US-08-444-734A-4
; Sequence 4, Application US/08444734A
; Patent No. 5610282
;  GENERAL INFORMATION:
;    APPLICANT:  Sibley, David R.
;    APPLICANT:  Monsma, Frederick J.
;    APPLICANT:  Mahan, Lawrence C.
;    APPLICANT:  McVittie, Loris D.
;    TITLE OF INVENTION:  cDNA encoding the rat D1 dopamine
;    TITLE OF INVENTION:  receptor linked to adnylyl cyclase activation and
;    TITLE OF INVENTION:  expression of the receptor protein in plasmid-transfected
;    TITLE OF INVENTION:  cell lines
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson and Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/444,734A
;      FILING DATE:
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/029,917
;      FILING DATE:  03-MAR-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/548,714
;      FILING DATE:  06-JUL-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Altman, Daniel E.
;      REGISTRATION NUMBER:  34,115
;      REFERENCE/DOCKET NUMBER:  NIH065.001FW1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (714) 760-0404
;      TELEFAX:  (714) 760-9502
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  477 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:  internal
US-08-444-734A-4

  Query Match            24.0%;  Score 551;  DB 1;  Length 477;
  Best Local Similarity  33.8%;  Pred. No. 6.1e-34;
  Matches  144;  Conservative   66;  Mismatches  170;  Indels   46;  Gaps   11;

Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              :||    | :   ||  :  | :   :  :   : ::  |  | | |:|  |   | |:
Db         33 LVPASPPASLLPPASESPEPLSQQWTAGMGLLMALIELLIVAGNVLVIVAIAKTPRLQTL 92

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              :| |::|| ::||::||:|:|      ::|||      | |||: ||:| :|||  ||:|
Db         93 TNLFIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVI 152

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV-- 176
              :||||| | || ||:  :|  ||  ||   |:::|| ||||:|: |   |   ||
Db        153 ALDRYLAITSPFRYQSLLTRARARGLVCTVWAISALVSFLPILMHWWRAESDEARRCYND 212

Qy        177 PGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQ 232
              |  |  :  :  : :| ::|::|   : | | |:   |:||  :: |       | |
Db        213 PKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARP 272

Qy        233 ASET-------LQVPRTPRPGVESADS-----------RRLATKHSRKALKAKLTLGIL 273
              | :         |  |||   :| :            ||    :||||   ||||:
Db        273 PSPSPSPVPAPAPPPGPPRPAAAAATAPLANGRAGKRRPSRLVALREQKALK---TLGII 329

Qy        274 LGMFFVTWLPFFVANIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              :|:| : |||||:||:|:|   : :   ||    ||||  |||||   |    ||::
Db        330 MGVFTLCWLPFFLANVVKAFHRELVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRK 385

Qy        330 ALGRFLPCPRCPRERQASLASPSLRTSHSGPRPGLSLQQVLPLPLP-PDSDSDSDAGSGG 388
              |    | | |    |: :      | |    |||       | | |   || | |   |
Db        386 AFQGLLCCARRAARRRHATHGDRPRASGCLARPG-------PPPSPGAASDDDDDDVVGA 438

Qy        389 SSGLRL 394
              :  ||
Db        439 TPPARL 444


Search completed: May  7, 2004, 13:21:09
Job time : 24 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: May 7, 2004, 13:20:05 ; Search time 48 Seconds
(without alignments)
2544.362 Million cell updates/sec

Title: US-09-826-509-449
Perfect score: 2292
Sequence: 1 MVPEPGPTANSTPAWGAGPP.....FNIDPAEPELRPHPLGIPTN 440

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1140673 seqs, 277566755 residues

Total number of hits satisfying chosen parameters: 1140673

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
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8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
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12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
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17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	2292	100.0	440	11	US-09-826-509-449	Sequence 449, App
2	2287	99.8	440	14	US-10-225-567A-20	Sequence 20, Appl
3	2287	99.8	440	14	US-10-345-680-41	Sequence 41, Appl
4	1899.5	82.9	437	9	US-09-829-631A-8	Sequence 8, Appli
5	1768.5	77.2	439	9	US-09-829-631A-13	Sequence 13, Appl
6	1387	60.5	291	9	US-09-829-631A-10	Sequence 10, Appl
7	557	24.3	477	14	US-10-225-567A-50	Sequence 50, Appl
8	557	24.3	477	15	US-10-295-027-716	Sequence 716, App
9	557	24.3	477	15	US-10-295-027-885	Sequence 885, App
10	553.5	24.1	365	12	US-09-988-745-9	Sequence 9, Appli
11	552.5	24.1	400	9	US-09-895-211-4	Sequence 4, Appli
12	552.5	24.1	400	9	US-09-895-211-6	Sequence 6, Appli
13	552.5	24.1	446	14	US-10-225-567A-98	Sequence 98, Appl
14	552.5	24.1	446	14	US-10-299-642-2	Sequence 2, Appli
15	552.5	24.1	446	14	US-10-299-642-4	Sequence 4, Appli
16	552.5	24.1	446	14	US-10-299-642-6	Sequence 6, Appli
17	552.5	24.1	446	15	US-10-292-798-628	Sequence 628, App
18	551.5	24.1	446	11	US-09-826-509-487	Sequence 487, App
19	548.5	23.9	446	14	US-10-299-642-16	Sequence 16, Appl
20	547.5	23.9	446	14	US-10-277-078-4	Sequence 4, Appli
21	538.5	23.5	446	14	US-10-299-642-32	Sequence 32, Appl
22	535.5	23.4	428	12	US-10-092-771-8	Sequence 8, Appli
23	535	23.3	445	14	US-10-299-642-28	Sequence 28, Appl
24	533.5	23.3	446	14	US-10-299-642-22	Sequence 22, Appl
25	531.5	23.2	446	12	US-10-205-331-4	Sequence 4, Appli
26	531.5	23.2	446	14	US-10-299-642-20	Sequence 20, Appl
27	531	23.2	408	9	US-09-895-211-5	Sequence 5, Appli
28	531	23.2	408	14	US-10-225-567A-54	Sequence 54, Appl
29	531	23.2	408	15	US-10-295-027-691	Sequence 691, App
30	530.5	23.1	446	14	US-10-299-642-30	Sequence 30, Appl
31	528.5	23.1	463	12	US-10-092-771-5	Sequence 5, Appli
32	523.5	22.8	391	10	US-09-992-238-25	Sequence 25, Appl
33	523.5	22.8	391	12	US-10-092-771-4	Sequence 4, Appli
34	523.5	22.8	391	15	US-10-436-715-53	Sequence 53, Appl
35	520	22.7	408	9	US-09-895-211-2	Sequence 2, Appli
36	515.5	22.5	382	9	US-09-993-844-5	Sequence 5, Appli
37	512.5	22.4	146	9	US-09-829-631A-11	Sequence 11, Appl
38	511.5	22.3	445	12	US-10-092-771-7	Sequence 7, Appli
39	508.5	22.2	394	9	US-09-993-844-7	Sequence 7, Appli
40	507.5	22.1	560	14	US-10-238-129-8	Sequence 8, Appli
41	507.5	22.1	560	14	US-10-238-667-8	Sequence 8, Appli
42	505.5	22.1	562	10	US-09-992-238-14	Sequence 14, Appl
43	503	21.9	572	10	US-09-992-238-13	Sequence 13, Appl
44	503	21.9	572	14	US-10-185-991-2	Sequence 2, Appli
45	503	21.9	572	14	US-10-238-129-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-826-509-449
; Sequence 449, Application US/09826509
; Publication No. US20030204073A1
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known
; TITLE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 449
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-826-509-449

Query Match 100.0%; Score 2292; DB 11; Length 440;
Best Local Similarity 100.0%; Pred. No. 5.2e-177;
Matches 440; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180
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Db        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180

Qy        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240

Qy        241 RTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 RTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300

Qy        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP 360

Qy        361 RPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAAAAVNF 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 RPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAAAAVNF 420

Qy        421 FNIDPAEPELRPHPLGIPTN 440
              ||||||||||||||||||||
Db        421 FNIDPAEPELRPHPLGIPTN 440
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RESULT 2
US-10-225-567A-20
; Sequence 20, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-20

Query Match 99.8%; Score 2287; DB 14; Length 440;
Best Local Similarity 99.8%; Pred. No. 1.3e-176;
Matches 439; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180

Qy        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240

Qy        241 RTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300
              |||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db        241 RTPRPGVESADSRRLATKHSRKALKASLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300

Qy        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP 360

Qy        361 RPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAAAAVNF 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 RPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAAAAVNF 420

Qy        421 FNIDPAEPELRPHPLGIPTN 440
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Db        421 FNIDPAEPELRPHPLGIPTN 440
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RESULT 3
US-10-345-680-41
; Sequence 41, Application US/10345680
; Publication No. US20030148394A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Inmaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MPI02-012P1RNM_OMNI
; CURRENT APPLICATION NUMBER: US/10/345,680
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-345-680-41

Query Match 99.8%; Score 2287; DB 14; Length 440;
Best Local Similarity 99.8%; Pred. No. 1.3e-176;
Matches 439; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180

Qy        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240

Qy        241 RTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300
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Db        241 RTPRPGVESADSRRLATKHSRKALKASLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300

Qy        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP 360

Db        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP 360

Qy        361 RPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAAAAVNF 420

Db        361 RPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAAAAVNF 420

Qy        421 FNIDPAEPELRPHPLGIPTN 440

Db        421 FNIDPAEPELRPHPLGIPTN 440


RESULT 4
US-09-829-631A-8
; Sequence 8, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
;  APPLICANT: Sibley, David R.
;  APPLICANT:  Monsma, Frederick J.
;  APPLICANT:  Hamblin, Mark
;  TITLE OF INVENTION: The ST-B17 Serotonin Receptor
;  FILE REFERENCE: NIH047.1CP1C1
;  CURRENT APPLICATION NUMBER: US/09/829,631A
;  CURRENT FILING DATE:  2001-04-10
;  PRIOR APPLICATION NUMBER: US 08/428,242
;  PRIOR FILING DATE: 1995-09-18
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 437
;   TYPE: PRT
;   ORGANISM: Rat
US-09-829-631A-8

  Query Match             82.9%;  Score 1899.5;  DB 9;  Length 437;
  Best Local Similarity   84.5%;  Pred. No. 2.9e-145;
  Matches  376;  Conservative   11;  Mismatches   45;  Indels   13;  Gaps    4;

Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60

Db          1 MVPEPGPVNSSTPAWGPGPPPAPGGSGWVAAALCVVIVLTAAANSLLIVLICTQPAVRNT 60

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Db         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180

Db        121 SLDRYLLILSPLRYKLRMTAPRALALILGAWSLAALASFLPLLLGWHELGKARTPAPGQC 180

Qy        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240

Db        181 RLLASLPFVLVASGVTFFLPSGAICFTYCRILLAARKQAVQVASLTTGTAGQALETLQVP 240

Qy        241 RTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300

Db        241 RTPRPGMESADSRRLATKHSRKALKASLTLGILLGMFFVTWLPFFVANIAQAVCDCISPG 300

Qy        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSL-----RT 355

Db        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLHASTVPR----STGQPCLPLHVDLS 356

Qy        356 SHSGPRPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAA 415

Db        357 QRCQTRP--QLQQVLALPLPPNSDSDS--ASGGTSGLQLTAQLLLPGEATRDPPPPTRAT 412

Qy        416 AAVNFFNIDPAEPELRPHPLGIPTN 440

Db        413 TVVNFFVTDSVEPEIRPHPLSSPVN 437


RESULT 5
US-09-829-631A-13
; Sequence 13, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
;  APPLICANT: Sibley, David R.
;  APPLICANT:  Monsma, Frederick J.
;  APPLICANT:  Hamblin, Mark
;  TITLE OF INVENTION: The ST-B17 Serotonin Receptor
;  FILE REFERENCE: NIH047.1CP1C1
;  CURRENT APPLICATION NUMBER: US/09/829,631A
;  CURRENT FILING DATE:  2001-04-10
;  PRIOR APPLICATION NUMBER: US 08/428,242
;  PRIOR FILING DATE: 1995-09-18
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 439
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: (1)...(439)
;   OTHER INFORMATION: Xaa = Any Amino Acid
US-09-829-631A-13

  Query Match             77.2%;  Score 1768.5;  DB 9;  Length 439;
  Best Local Similarity   77.6%;  Pred. No. 1.2e-134;
  Matches  356;  Conservative    8;  Mismatches   56;  Indels   39;  Gaps    4;

Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60

Db          1 MVPEPGPTANSTPAWGAGARXX-GGSGWVAAGLCVVIALTAAANSLLIALICTQPALRNT 59

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Db         60 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 119

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180

Db        120 SLDRYLLILSPLRYKLRMTPLRALALVLGGWSLAALASFLPLLLGWHELGHARPPVPGQC 179

Qy        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240

Db        180 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 239

Qy        241 RTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 300

Db        240 RSPAAGVESADSRRLATKSSRKGLKASMTLGILLGMFFVTWLPFFVANIVQAVCDCISPG 299

Qy        301 LFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPRCPRERQASLASPSLRTSHSGP 360

Db        300 LFDVLTWLGYCNSTMNPIIYPLFMLDFKRALGRFLPCPRCPRE----------------P 343

Qy        361 RPGLSLQQVLPLPLPPD------------------SDSDSDAGSGGSSGLRLTAQLLLP 401

Db        344 RPAWPRHHCAPLTAAPGPALAYSRCCRCPCRRTQIRTQTQAQAAPRACGSRPSCCFLARP 403

Qy        402 GEATQDPPLPTRAAAAVNFFNIDPAEPELRPHPLGIPTN 440

Db        404 PRTPRCPPGPLPPSIS---STSXPAEPELRPHPLGIPTN 439


RESULT 6
US-09-829-631A-10
; Sequence 10, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
;  APPLICANT: Sibley, David R.
;  APPLICANT:  Monsma, Frederick J.
;  APPLICANT:  Hamblin, Mark
```

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;  TITLE OF INVENTION: The ST-B17 Serotonin Receptor
;  FILE REFERENCE: NIH047.1CP1C1
;  CURRENT APPLICATION NUMBER: US/09/829,631A
;  CURRENT FILING DATE:  2001-04-10
;  PRIOR APPLICATION NUMBER: US 08/428,242
;  PRIOR FILING DATE: 1995-09-18
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 291
;   TYPE: PRT
;   ORGANISM: Rat
US-09-829-631A-10

  Query Match             60.5%;  Score 1387;  DB 9;  Length 291;
  Best Local Similarity   92.8%;  Pred. No. 5.1e-104;
  Matches  270;  Conservative    5;  Mismatches   16;  Indels    0;  Gaps    0;

Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              |||||||  :|||||| ||| |||||||||||||||| |||||||||| |||||||:|||
Db          1 MVPEPGPVNSSTPAWGPGPPPAPGGSGWVAAALCVVIVLTAAANSLLIVLICTQPAVRNT 60

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPGQC 180
              |||||||||||||||||  |||||:|||||||||||||||||||||| || | ||||
Db        121 SLDRYLLILSPLRYKLRMTAPRALALILGAWSLAALASFLPLLLGWHELGKARTPAPGQC 180

Qy        181 RLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLTTGMASQASETLQVP 240
              |||||||||||||:|||||||||||||||||||||||||||||| | || ||||||
Db        181 RLLASLPFVLVASGVTFFLPSGAICFTYCRILLAARKQAVQVASLTTGTAGQALETLQVP 240

Qy        241 RTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQ 291
              ||||||:|||||||||||||||||||| ||||||||||||||||||||| |
Db        241 RTPRPGMESADSRRLATKHSRKALKASLTLGILLGMFFVTWLPFFVANIAQ 291


RESULT 7
US-10-225-567A-50
; Sequence 50, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
;  APPLICANT: LifeSpan Biosciences
;  APPLICANT:  Brown, Joseph P.
;  APPLICANT:  Burmer, Glenna C.
;  APPLICANT:  Roush, Christine L.
;  TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
;  FILE REFERENCE: 1920-4-4
;  CURRENT APPLICATION NUMBER: US/10/225,567A
;  CURRENT FILING DATE:  2001-12-19
;  PRIOR APPLICATION NUMBER: 60/257,144
;  PRIOR FILING DATE: 2000-12-19
;  NUMBER OF SEQ ID NOS: 2292
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
;   LENGTH: 477
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-225-567A-50

  Query Match             24.3%;  Score 557;  DB 14;  Length 477;
  Best Local Similarity   33.8%;  Pred. No. 1.3e-36;
  Matches  144;  Conservative   67;  Mismatches  169;  Indels   46;  Gaps   11;

Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              :||   | :   ||  :  | :   :  :   : ::: |  | | |:|  |   | |:
Db         33 LVPASPPASLLPPASESPEPLSQQWTAGMGLLMALIVLLIVAGNVLVIVAIAKTPRLQTL 92

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              :| |::|| ::||::||:|:|      ::|||      | |||: ||:| :|||  ||:|
Db         93 TNLFIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVI 152

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV-- 176
              :||||| | || ||:  :|  ||  ||   |:::|| ||||:|: |   |   ||
Db        153 ALDRYLAITSPFRYQSLLTRARARGLVCTVWAISALVSFLPILMHWWRAESDEARRCYND 212

Qy        177 PGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQ 232
              |  |  : :  : : :| ::|::|    : | | |:   |:||  :: |       | |
Db        213 PKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARP 272

Qy        233 ASET-------LQVPRTPRPGVESADS-----------RRLATKHSRKALKAKLTLGIL 273
              | :          |  |||   :| :             ||     :||||   ||||:
Db        273 PSPSPSPVPAPAPPPGPPRPAAAAATAPLANGRAGKRRPSRLVALREQKALK---TLGII 329

Qy        274 LGMFFVTWLPFFVANIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              :|:| : |||||:||:|:|    : :   ||    |||| ||  |||||    |    ||::
Db        330 MGVFTLCWLPFFLANVVKAFHRELVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRK 385

Qy        330 ALGRFLPCPRCPRERQASLASPSLRTSHSGPRPGLSLQQVLPLPLP-PDSDSDSDAGSGG 388
              |    | | |    |: :     | |   |||          | | |   || | |   |
Db        386 AFQGLLCCARRAARRHATHGDRPRASGCLARPG-------PPPSPGAASDDDDDDVVGA 438

Qy        389 SSGLRL 394
              :  ||
Db        439 TPPARL 444


RESULT 8
US-10-295-027-716
; Sequence 716, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
;  APPLICANT: Afar, Daniel
;  APPLICANT:  Aziz, Natasha
;  APPLICANT:  Ginsberg, Wendy M.
;  APPLICANT:  Gish, Kurt C.
;  APPLICANT:  Glynne, Richard
;  APPLICANT:  Hevezi, Peter A.
;  APPLICANT:  Mack, David H.
;  APPLICANT:  Murray, Richard
;  APPLICANT:  Watson, Susan R.
;  APPLICANT:  Eos Biotechnology, Inc.
;  TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
;  TITLE OF INVENTION:  Methods of Screening for Modulators of Cancer
;  FILE REFERENCE: 018501-012500US
;  CURRENT APPLICATION NUMBER: US/10/295,027
;  CURRENT FILING DATE:  2002-11-13
;  PRIOR APPLICATION NUMBER: US 09/663,733
;  PRIOR FILING DATE: 2000-09-15
;  PRIOR APPLICATION NUMBER: US 60/350,666
;  PRIOR FILING DATE: 2001-11-13
;  PRIOR APPLICATION NUMBER: US 60/335,394
;  PRIOR FILING DATE: 2001-11-15
;  PRIOR APPLICATION NUMBER: US 60/332,464
;  PRIOR FILING DATE: 2001-11-21
;  PRIOR APPLICATION NUMBER: US 60/334,393
;  PRIOR FILING DATE: 2001-11-29
;  PRIOR APPLICATION NUMBER: US 60/340,376
;  PRIOR FILING DATE: 2001-12-14
;  PRIOR APPLICATION NUMBER: US 60/347,211
;  PRIOR FILING DATE: 2002-01-08
;  PRIOR APPLICATION NUMBER: US 60/347,349
;  PRIOR FILING DATE: 2002-01-10
;  PRIOR APPLICATION NUMBER: US 60/355,250
;  PRIOR FILING DATE: 2002-02-08
;  PRIOR APPLICATION NUMBER: US 60/356,714
;  PRIOR FILING DATE: 2002-02-13
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1386
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 716
;   LENGTH: 477
;   TYPE: PRT
;   ORGANISM: Homo sapiens
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US-10-295-027-716

Query Match 24.3%; Score 557; DB 15; Length 477;
Best Local Similarity 33.8%; Pred. No. 1.3e-36;
Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;

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Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              :||   | :   ||  :  | :   :  :   : ::: |  | | |:|  |   | |:
Db         33 LVPASPPASLLPPASESPEPLSQQWTAGMGLLMALIVLLIVAGNVLVIVAIAKTPRLQTL 92

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              :| |::|| ::||::||:|:|      ::|||     | |||: ||:| :|||  ||:|
Db         93 TNLFIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVI 152

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV-- 176
              :|||||  | || ||:  :|  ||  ||   |:::|| ||||:|: |   |   ||
Db        153 ALDRYLAITSPFRYQSLLTRARARGLVCTVWAISALVSFLPILMHWWRAESDEARRCYND 212

Qy        177 PGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQ 232
              |  |  : :  : : :| ::|::|   : | | |:   |:||  :: |      | |
Db        213 PKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARP 272

Qy        233 ASET-------LQVPRTPRPGVESADS------------RRLATKHSRKALKAKLTLGIL 273
              | :          |  |||   :| :      .       ||     :||||   ||||:
Db        273 PSPSPSPVPAPAPPPGPPRPAAAAATAPLANGRAGKRRPSRLVALREQKALK---TLGII 329

Qy        274 LGMFFVTWLPFFVANIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              :|:| : ||||:||:|:|   : :   ||    ||||  ||  |||||   |   ||::
Db        330 MGVFTLCWLPFFLANVVKAFHRELVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRK 385

Qy        330 ALGRFLPCPRCPRERQASLASPSLRTSHSGPRPGLSLQQVLPLPLP-PDSDSDSDAGSGG 388
              |    | | |    |: :       | |   |||       | | |   || | |   |
Db        386 AFQGLLCCARRAARRRHATHGDRPRASGCLARPG-------PPPSPGAASDDDDDVVGA 438

Qy        389 SSGLRL 394
              :   ||
Db        439 TPPARL 444
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RESULT 9
US-10-295-027-885
; Sequence 885, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynne, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 885
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-295-027-885

Query Match 24.3%; Score 557; DB 15; Length 477;
Best Local Similarity 33.8%; Pred. No. 1.3e-36;
Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;

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Qy          1 MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNT 60
              :||   | :   ||  :  | :   :  :   : ::: |  | | |:|  |   | |:
Db         33 LVPASPPASLLPPASESPEPLSQQWTAGMGLLMALIVLLIVAGNVLVIVAIAKTPRLQTL 92

Qy         61 SNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLI 120
              :| |::|| ::||::||:|:|      ::|||     | |||: ||:| :|||  ||:|
Db         93 TNLFIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVI 152

Qy        121 SLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV-- 176
              :|||||  | || ||:  :|  ||  ||   |:::|| ||||:|: |   |   ||
Db        153 ALDRYLAITSPFRYQSLLTRARARGLVCTVWAISALVSFLPILMHWWRAESDEARRCYND 212

Qy        177 PGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQ 232
              |  |  : :  : : :| ::|::|   : | | |:   |:||  :: |      | |
Db        213 PKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARP 272

Qy        233 ASET-------LQVPRTPRPGVESADS------------RRLATKHSRKALKAKLTLGIL 273
              | :          |  |||   :| :      .       ||     :||||   ||||:
Db        273 PSPSPSPVPAPAPPPGPPRPAAAAATAPLANGRAGKRRPSRLVALREQKALK---TLGII 329

Qy        274 LGMFFVTWLPFFVANIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
              :|:| : ||||:||:|:|   : :   ||    ||||  ||  |||||   |   ||::
Db        330 MGVFTLCWLPFFLANVVKAFHRELVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRK 385

Qy        330 ALGRFLPCPRCPRERQASLASPSLRTSHSGPRPGLSLQQVLPLPLP-PDSDSDSDAGSGG 388
              |    | | |    |: :       | |   |||       | | |   || | |   |
Db        386 AFQGLLCCARRAARRRHATHGDRPRASGCLARPG-------PPPSPGAASDDDDDVVGA 438

Qy        389 SSGLRL 394
              :   ||
Db        439 TPPARL 444
```

RESULT 10
US-09-988-745-9
; Sequence 9, Application US/09988745
; Publication No. US20020086362A1
; GENERAL INFORMATION:
; APPLICANT: LI, Yi and RUBEN, Steven
; TITLE OF INVENTION: HUMAN AMINE RECEPTOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN AND FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, NW, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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;             APPLICATION NUMBER: US/09/988,745
;             FILING DATE: 20-Nov-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/314,006
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: STEFFE, ERIC K
;             REGISTRATION NUMBER: 36,688
;             REFERENCE/DOCKET NUMBER: 1488.0840001
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 371-2600
;             TELEFAX: (202) 371-2540
;   INFORMATION FOR SEQ ID NO: 9:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 365 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: Not Relevant
;             TOPOLOGY: Not Relevant
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-988-745-9

  Query Match             24.1%;  Score 553.5;  DB 12;  Length 365;
  Best Local Similarity   37.8%;  Pred. No. 1.8e-36;
  Matches  137;  Conservative   56;  Mismatches  134;  Indels   35;  Gaps   12;

Qy           7 PTANSTPAWGAGPPSAPGGSGWVAA---ALCVVIALTAAANSLLIALICTQPALRNTSNF 63
               | |:  |    |  |||    | |      : :::  |    | |:|  |   | |:  :|
Db           9 PPASLLPPASEG--SAPLSQQWTAGMGLLVALIVLLIVVGNVLVIVAIAKTPRLQTLTNL 66

Qy          64 FLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLD 123
               |::|| ::||::||:|:|      ::|||       | |||: ||:| :|||  ||:|:||
Db          67 FIMSLASADLVMGLLVVPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASIETLCVIALD 126

Qy         124 RYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGW--HELGHARPPV--PGQ 179
               ||| | || ||:  :|  || |||    |:::|| ||||:|: |    |    ||     |
Db         127 RYLAITSPFRYQSLLTRARARALVCTVWAISALVSFLPILMHWWRAESDEARRCYNDPKC 186

Qy         180 CRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVAS----LTTGMASQAS- 234
               |  : :  : : :| ::|::|   : | | |:   |:||  :: |       | |   |
Db         187 CDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLGGPARPPSP 246

Qy         235 ETLQVPRTPRPGVESADSR-------RLATKHSRKALKAKLTLGILLGMFFVTWLPFFVA 287
               |    |  |||    |: |       ||     :||||   ||||::|:| : |||||:|
Db         247 EPSPSPGPPRPADSLANGRSSKRRPSRLVALREQKALK---TLGIIMGVFTLCWLPFFLA 303

Qy         288 NIVQAV-CDCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKRALGRFLPCPR---C 340
               |:|:|   | :   ||    |||| ||  |||||    |   ||::|  | | | |   |
Db         304 NVVKAFHRDLVPDRLFVFFNWLGYANSAFNPIIYCRSP----DFRKAFQRLLCCARRAAC 359

Qy         341 PR 342
               ||
Db         360 RR 361


RESULT 11
US-09-895-211-4
; Sequence 4, Application US/09895211
; Patent No. US20020127639A1
; GENERAL INFORMATION:
;  APPLICANT: Hunton and Williams
;  APPLICANT:  Emorine, Laurent
;  TITLE OF INVENTION: INTRON/EXON STRUCTURE OF THE HUMAN AND MOUSE BETA3 ADRENERGIC REC
;  TITLE OF INVENTION:  GENES
;  FILE REFERENCE: 58769.000011
;  CURRENT APPLICATION NUMBER: US/09/895,211
;  CURRENT FILING DATE:  2001-07-02
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-895-211-4

  Query Match             24.1%;  Score 552.5;  DB 9;  Length 400;
  Best Local Similarity   35.1%;  Pred. No. 2.4e-36;
  Matches  141;  Conservative   60;  Mismatches  150;  Indels   51;  Gaps   15;

Qy           5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
               | |  | : | |   |   |||   ||      | ||    ::|| |   | |:|  |
Db           3 PWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIART 62

Qy          55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
               | |:  :| |: ||  :||:|||:||||     || | | |     | |||: ||:| :|||
Db          63 PRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASI 122

Qy         115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
                 || :::|||| : :||||   :|  || | |:  | ::|  || |::  |  :|
Db         123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAE 182

Qy         171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
                   |: |     |  :::|: |::|  ::|:||   : | | |: : |::|   :
Db         183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-HLLRRE 238

Qy         227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274
               | |           |:| |          ||     |  ||       :||:   |||:::
Db         239 LGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALR---TLGLIM 295

Qy         275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY---PLFMRDFKR 329
               |:| : |||||:||:::|:      :  |:|  | |||| ||  ||:||    | |    |:|
Db         296 GIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRR 355

Qy         330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362
               |    ||    ||    |      :  || |      : | ||
Db         356 LLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARP 397


RESULT 12
US-09-895-211-6
; Sequence 6, Application US/09895211
; Patent No. US20020127639A1
; GENERAL INFORMATION:
;  APPLICANT: Hunton and Williams
;  APPLICANT:  Emorine, Laurent
;  TITLE OF INVENTION: INTRON/EXON STRUCTURE OF THE HUMAN AND MOUSE BETA3 ADRENERGIC
;  TITLE OF INVENTION:  GENES
;  FILE REFERENCE: 58769.000011
;  CURRENT APPLICATION NUMBER: US/09/895,211
;  CURRENT FILING DATE:  2001-07-02
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-895-211-6

  Query Match             24.1%;  Score 552.5;  DB 9;  Length 400;
  Best Local Similarity   35.1%;  Pred. No. 2.4e-36;
  Matches  141;  Conservative   60;  Mismatches  150;  Indels   51;  Gaps   15;

Qy           5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAAALCVVIAL-TAAANSLLIALICTQ 54
               | |  | : | |   |   |||   ||      | ||    ::|| |   | |:|  |
Db           3 PWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIART 62

Qy          55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASI 114
               | |:  :| |: ||  :||:|||:||||     || | | |     | |||: ||:| :|||
Db          63 PRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASI 122

Qy         115 LNLCLISLDRYLLILSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELG---- 170
                 || :::|||| : :||||   :|  || | |:  | ::|  || |::  |  :|
Db         123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAE 182

Qy         171 ----HARPPVPGQCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASLT 226
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Db        183 AQECHSNPRC---CSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQR-HLLRRE 238

Qy        227 TGMASQASETLQVPRTPRP----------GVESADSR--RLATKHSRKALKAKLTLGILL 274

Db        239 LGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALR---TLGLIM 295

Qy        275 GMFFVTWLPFFVANIVQAVC--DCISPGLFDVLTWLGYCNSTMNPIIY-----PLFMRDFKR 329

Db        296 GIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRR 355

Qy        330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362

Db        356 LLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARP 397


RESULT 13
US-10-225-567A-98
; Sequence 98, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
;  APPLICANT: LifeSpan Biosciences
;  APPLICANT:  Brown, Joseph P.
;  APPLICANT:  Burmer, Glenna C.
;  APPLICANT:  Roush, Christine L.
;  TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
;  FILE REFERENCE: 1920-4-4
;  CURRENT APPLICATION NUMBER: US/10/225,567A
;  CURRENT FILING DATE:  2001-12-19
;  PRIOR APPLICATION NUMBER: 60/257,144
;  PRIOR FILING DATE: 2000-12-19
;  NUMBER OF SEQ ID NOS: 2292
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 98
;   LENGTH: 446
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-225-567A-98

  Query Match             24.1%;  Score 552.5;  DB 14;  Length 446;
  Best Local Similarity   31.2%;  Pred. No. 2.8e-36;
  Matches  143;  Conservative   79;  Mismatches  172;  Indels   65;  Gaps   13;

Qy         21 SAPGGSGWV-----------AAALCVVIALTAAANSLLIALICTQPALRN-TSNFFLVSL 68

Db          7 SAMDGTGLVVERDFSVRILTACFLSLLILSTLLGNTLVCAAVIRFRHLRSKVTNFFVISL 66

Qy         69 FTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLDRYLLI 128

Db         67 AVSDLLVAVLVMPWKAVAEIAGFWPFG-SFCNIWVAFDIMCSTASILNLCVISVDRYWAI 125

Qy        129 LSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPG---------- 178

Db        126 SSPFRYERKMTPKAAFILISVAWTLSVLISFIPVQLSWHK---AKPTSPSDGNATSLAET 182

Qy        179 --QCRLLASLPFVLVASGLTFFLPSGAICFTYCRILLAARKQAVQVASL-TTGMASQASE 235

Db        183 IDNCDSSLSRTYAISSSVISFYIPVAIMIVTYTRIYRIAQKQIRRIAALERAAVHAKNCQ 242

Qy        236 TLQVPRTPRPGVESADSRRLATKHSRKALKAKLTLGILLGMFFVTWLPFFVANIVQAVCD 295

Db        243 TTTGNGKPVECSQPESSFKMSFKRETKVLK---TLSVIMGVFVCCWLPFFILNCILPFCG 299

Qy        296 -------CISPGLFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCPR-CPRERQA- 346

Db        300 SGETQPFCIDSNTFDVFVWFGWANSSLNPIIY-AFNADFRKAFSTLLGCYRLCPATNNAI 358

Qy        347 -----SLASPSLRTSHSGPRPGLSLQQVLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLP 401

Db        359 ETVSINNNGAAMFSSHHEPRGSISKECNLVYLIPHAVGSSEDLKKEEAAGIARPLEKLSP 418

Qy        402 GEATQDPPLPTRAAAAVNFFNIDPAEPELRP------HP 434

Db        419 ------------ALSVILDYDTDVSLEKIQPITQNGQHP 445


RESULT 14
US-10-299-642-2
; Sequence 2, Application US/10299642
; Publication No. US20030170741A1
; GENERAL INFORMATION:
;  APPLICANT: The Procter & Gamble Company
;  APPLICANT:  Isfort, Robert
;  APPLICANT:  Sheldon, Russell
;  TITLE OF INVENTION: Methods for Identifying Compounds for Regulationg Muscle Mass o
;  TITLE OF INVENTION:  Using Dopamine Receptors
;  FILE REFERENCE: 8448M
;  CURRENT APPLICATION NUMBER: US/10/299,642
;  CURRENT FILING DATE:  2003-10-09
;  PRIOR APPLICATION NUMBER: 60/349,620
;  PRIOR FILING DATE: 2002-07-01
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 446
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-299-642-2

  Query Match             24.1%;  Score 552.5;  DB 14;  Length 446;
  Best Local Similarity   31.2%;  Pred. No. 2.8e-36;
  Matches  143;  Conservative   79;  Mismatches  172;  Indels   65;  Gaps   13;

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Qy         69 FTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLDRYLLI 128

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Qy        129 LSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPG---------- 178

Db        126 SSPFRYERKMTPKAAFILISVAWTLSVLISFIPVQLSWHK---AKPTSPSDGNATSLAET 182

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Db        183 IDNCDSSLSRTYAISSSVISFYIPVAIMIVTYTRIYRIAQKQIRRIAALERAAVHAKNCQ 242

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Db        243 TTTGNGKPVECSQPESSFKMSFKRETKVLK---TLSVIMGVFVCCWLPFFILNCILPFCG 299

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RESULT 15
US-10-299-642-4
; Sequence 4, Application US/10299642
; Publication No. US20030170741A1
; GENERAL INFORMATION:
;  APPLICANT: The Procter & Gamble Company
;  APPLICANT:  Isfort, Robert
;  APPLICANT:  Sheldon, Russell
;  TITLE OF INVENTION: Methods for Identifying Compounds for Regulationg Muscle Mass o
;  TITLE OF INVENTION:  Using Dopamine Receptors
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;  FILE REFERENCE: 8448M
;  CURRENT APPLICATION NUMBER: US/10/299,642
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;  PRIOR APPLICATION NUMBER: 60/349,620
;  PRIOR FILING DATE: 2002-07-01
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 446
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-299-642-4

  Query Match             24.1%;  Score 552.5;  DB 14;  Length 446;
  Best Local Similarity   31.2%;  Pred. No. 2.8e-36;
  Matches  143;  Conservative   79;  Mismatches  172;  Indels   65;  Gaps   13;

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Db           7 SAMDGTGLVVERDFSVRILTACFLSLLILSTLLGNTLVCAAVIRFRHLRSKVTNFFVISL 66

Qy          69 FTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLDRYLLI 128
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Db          67 AVSDLLVAVLVMPWKAVAEIAGFWPFG-SFCNIWVAFDIMCSTASILNLCVISVDRYWAI 125

Qy         129 LSPLRYKLRMTPLRALALVLGAWSLAALASFLPLLLGWHELGHARPPVPG---------- 178
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